ES Warmups Week 17

Match each description with the appropriate term.

|  |  |  |  |
| --- | --- | --- | --- |
| 1. | The surface of the Sun; gives off light | a. | Sun |
| 2. | The closest star to the Earth | b. | Corona |
| 3. | The part of the Sun that would be visible during a solar eclipse | c. | Photosphere |
| 4. | The process of combining 4 hydrogen into 1 helium molecule | d. | Fusion |

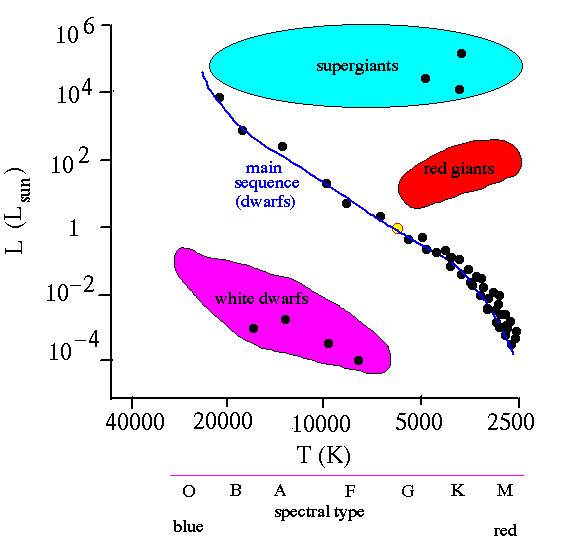
Match each description with the appropriate definition.

|  |  |  |  |
| --- | --- | --- | --- |
| 1. | How bright a star is | a. | Absolute magnitude |
| 2. | How bright a star appears from Earth | b. | Apparent magnitude |

The table below lists apparent magnitudes of stars. For each question, choose the star that would look brightest from Earth.

|  |  |  |
| --- | --- | --- |
|  | Star A | Star B |
| 3. | +6 | +4 |
| 4. | -2 | +5 |
| 5. | -3 | -1 |

1. Place the following steps of star evolution in order, starting with where stars are “born.”
   1. Main sequence
   2. White dwarf
   3. Giant
   4. Nebula
2. Which type of star does this sequence represent: high mass or low mass?

Use the H-R diagram to answer the following questions.

1. Which stars are the brightest?
2. Which stars are the hottest?
3. What group do most stars belong to?
4. Which type of star is our Sun?

Identify the following statements as true or false

|  |  |
| --- | --- |
| 1. | The three shapes of galaxies are spiral, elliptical, and irregular. |
| 2. | The Milky Way galaxy is an elliptical galaxy. |
| 3. | Galaxies are bigger than universes. |
| 4. | Spiral galaxies can be normal or barred. |
| 5. | Galaxies can contain trillions of stars. |